COVID-19 Impact On Counties

Katherine Lin Byram Hills High School

Supervised by Linda Zhao

My COMD path to Data Scientist



My COMD path to Data Scientist





My COMD path to Data Scientist





COMDDeath Rate vs County Socioeconomic Status

1.Important factors related to COVID death rate

Elderly is affected more. Is this true?

1.Predict COVID death rate

More informed and careful?

High income less affected?





Data



CENTERS FOR DISEASE CONTROL AND PREVENTION

ERSS....

United States Department of Agriculture

Data





Merging Data



CENTERS FOR DISEASE CONTROL AND PREVENTION

ECONOMIC RESEARCH SERVICE United States Department of Agriculture





Accumulative Deaths and Death Rate (8/19/2020)

20.000

10,000

State Fatality Number Continental US States



State Fatality Rate Continental US States



Number of Deaths per 100,000 People





EDA

Histogram of Death Rate







EDA













Predictive Models Prediction Error



Random Forest	Boosting	Deep Learning	Relaxed LASSO
0.47	0.50	0.54	0.56

My COVID path to Data Scientist

Thank you!

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Prof Zhao's Modern Data Mining Course

What can I do to help?



Data Scientist

Aim to be a data scientist Use data for social good

COVID+County study